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# PRESIDENCY UNIVERSITY

## BENGALURU

### Mid - Term Examinations - October 2025

Date 10-10-2025

Time: 09.30am to 11.00am

<b>School:</b> SOE	<b>Program:</b> B.Tech. (PET)	
<b>Course Code:</b> PET2101	<b>Course Name:</b> Petroleum Geology	
<b>Semester:</b> III	<b>Max Marks:</b> 50	<b>Weightage:</b> 25%

<b>CO - Levels</b>	<b>c01</b>	<b>c02</b>	<b>c03</b>	<b>c04</b>	<b>c05</b>	<b>c06</b>
<b>Marks</b>	24	24	02			

#### Instructions:

- (i) Read all questions carefully and answer accordingly.
- (ii) Do not write anything on the question paper other than roll number.

### Part A

Answer ALL the Questions. Each question carries 2 marks.

5Q x 2M=10M

<b>1.</b>	Describe geology as a natural science.	<b>2 Marks</b>	<b>L1</b>	<b>c01</b>
<b>2.</b>	Recognize the appropriate missing word to fill in the blank: A key importance of geology in petroleum engineering is identifying _____ rocks for hydrocarbon _____.	<b>2 Marks</b>	<b>L1</b>	<b>c01</b>
<b>3.</b>	Differentiate between continental drift and plate tectonics.	<b>2 Marks</b>	<b>L1</b>	<b>c02</b>
<b>4.</b>	List the appropriate missing word to fill in the blank: The theory of Plate tectonics explains the _____ of Earth's _____ plates.	<b>2 Marks</b>	<b>L1</b>	<b>c02</b>
<b>5.</b>	Differentiate between petroleum geology and general geology.	<b>2 Marks</b>	<b>L1</b>	<b>c03</b>

### Part B

**Answer the Questions.****Total Marks 40M**

<b>6.</b>	<b>a.</b>	Review the importance of geology in petroleum engineering with suitable case examples.	<b>10 Marks</b>	<b>L2</b>	<b>CO1</b>
	<b>b.</b>	Distinguish between Engineering Geology, Petroleum Geology, and Mining Geology in terms of scope and applications.	<b>10 Marks</b>	<b>L2</b>	<b>CO1</b>

**Or**

<b>7.</b>	<b>a.</b>	Interpret the different theories/hypotheses related to the origin of the Earth and classify them under catastrophic theories and evolutionary theories.	<b>10 Marks</b>	<b>L2</b>	<b>CO1</b>
	<b>b.</b>	Classify the envelopes of the Earth and demonstrate their significance.	<b>10 Marks</b>	<b>L2</b>	<b>CO1</b>

<b>8.</b>	<b>a.</b>	Illustrate with examples how earthquakes are related to plate tectonic activities and demonstrate their impacts.	<b>10 Marks</b>	<b>L3</b>	<b>CO2</b>
	<b>b.</b>	Examine the importance of sediment transportation processes.	<b>10 Marks</b>	<b>L3</b>	<b>CO2</b>

**Or**

<b>9.</b>	<b>a.</b>	Illustrate the evidence that demonstrates Alfred Wegener's concept of Continental Drift.	<b>10 Marks</b>	<b>L3</b>	<b>CO2</b>
	<b>b.</b>	Examine and interpret the interaction between internal and external processes in shaping Earth's surface topography.	<b>10 Marks</b>	<b>L3</b>	<b>CO2</b>